

USSR/Analysis of Inorganic Substances

G-2

Abs Jour: Ref Zhur-Khimika, No 6, 1957, 19632

and slightly acid media ($5 < \text{pH} < 8$) are the best for the potentiometric titration of ClO^- with a solution of Na_2SO_3 . Solutions containing ClO^- and ClO_2^- are not stable in slightly alkaline, neutral and slightly acid media. The conclusion was arrived at that the potentiometric titration with the Na_2SO_3 solution could not give reliable results at a simultaneous determination of ClO^- and ClO_2^- . The reaction of ClO_2^- with As_2O_3 in an alkaline medium proceeds very slowly (the studied system is stable only in the alkaline region), therefore, ClO^- can be titrated off in presence of ClO_2^- . The final point can be determined easily by a sharp change of the

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oxidizing potential. The following method is recommended: the total content of ClO_2^- and ClO^- is determined in one sample by the iodometric method and ClO^- is determined in another sample by the potentiometric titration in alkaline medium ($\text{pH} > 9$) with As_2O_3 .

Card 3/3

- 114 -

Leningradskiy Tekhnologicheskiy inst. im. V.M. Molotova.

BYNYAYEVA, M. K. Cand Chem Sci -- (diss) "Study of the processes of decomposition of hypochlorites in aqueous solutions." Len, 1957. 14 pp (Min of Higher Education USSR. Len Order of Labor Red Banner Technological Inst im Lensoviet), 100 copies (KL, 43-57, 86)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307920013-6

BYNYAYEVA, M. K.

FLIS, I.Ye.; BYNYAYEVA, M.K.

Auto-oxidation processes in hypochlorite solutions. Zhur.prikl.khim.
30 no.3:339-345 Mr '57.
(MLRA 10:5)

1.Leningradskiy tekhnologicheskiy institut im. V.M. Molotova.
(Hypochlorites) (Oxidation)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307920013-6"

BYNYAYEVA M.K.

AUTHORS: Flis, I. Ye., Bynyayeva, M. K. 75-6-16/23

TITLE: The Determination of Chlorine Dioxide in Solutions
(Opredeleniye dvukisi khlora v rastvore).

PERIODICAL: Zhurnal Analiticheskoy Khimii , 1957, Vol. 12, Nr 6,
pp. 740-743 (USSR)

ABSTRACT: The method of the determination of chlorine dioxide in
solutions is based on its decomposition with hydrogen per-
oxide in an alkaline medium. The analysis is suited for the
determination of chlorine dioxide in presence of chlorites,
chlorates, chlorides and carbonates. By this method it is
possible to determine a 0,0005 gram equivalent of ClO₂.
This method can also be applied to the determination of
chlorine dioxide and chlorite in bleaching solutions.
There are 3 tables and 15 references, 2 of which are Slavic.

ASSOCIATION: Technological Institute, Leningrad (Leningradskiy tekhnolog-
cheskiy institut).

SUBMITTED: February 7, 1955
Card 1/2 1. Bleaching solutions 2. Chlorine dioxide-Determination
3. Chlorites 4. Chlorates 5. Carbonates

The Determination of Chlorine Dioxide in Solutions.

75-6-16/23

AVAILABLE: Library of Congress

Card 2/2

FLIS, I.Ye.; BYTYAYEVA, M.K.; BLOSHTEYN, I.I.

Conditions required for a chemical method of preparing chlorates.
Zhur.prikl.khim. 33 no.4:779-783 Ap '60. (MIRA 13:9)
(Chlorates)

FLIS, I.Ye.; BYNYAYEVA, M.K.

Oxidation potentials dependence on the pH in solutions of permanganate, chlorate, bichromate-chromate, and hydrogen peroxide. Zhur. fiz. khim. 35 no.5:1003-1009 My '61.
(MIRA 16:7)

1. Leningradskiy tekhnologicheskiy institut.
(Electrochemistry) (Oxidation)

OSINSKA-TANEVSKA, S.M.; BYNYAYEVA, M.K.; MISHCHENKO, K.P.; FLIS, I.Ye.

Spectrophotometric determination of the constants of dissociation
of hypochlorous acid at various temperatures. Zhur.prikl.khim.
36 no.6:1212-1217 Je '63. (MIRA 16:8)
(Hypochlorous acid) (Dissociation) (Spectrophotometry)

MISHCHENKO, K.P., doktor khimicheskikh nauk; FLIS, I.Ye., kand.khimich. nauk;
BYNYAYEVA, M.K., kand.khimich. nauk; KRYUKOVA, Z.M., kand.khimich.
nauk; SAINIS, K.Yu., kand.khimich. nauk; BLOSHTEYN, I.I., inzh.;
DOBRYSHIN, K.D., inzh.; FISH, S.I., inzh.

Technology of the production of chlorine dioxide. Trudy LTITSBP
no.8:81-88 '61. (MIRA 16:9)
(Chlorine oxides)

PUSENOK, G.I., inzh.; FLIS, I.Ye., doktor khim.nauk; MISHCHENKO, K.P.,
doktor khim. nauk; BYNYAYEVA, M.K., kand.khim. nauk

Spectrophotometric method for studying the equilibrium of the
dissociation of hypobromous acid in aqueous solutions. Trudy
LTITSBP no.11:118-123 '62. (MIRA 16:10)

FLIS, I.K.; BYNYAYEVA, M.K.

Platinum electrode after treatment in solutions of hypochlorite
and other oxidizing agents. Zhur. fiz. khim. 37 no.12:2621-
2626 D '63. (MIRA 17:1)

1. Leningradskiy tekhnicheskiy institut tsellyulozno-bumazhnay
promyslennosti.

ALEKHIN, F.K.; ALOTIN, L.M.; ALTAYEV, Sh.A.; ANTONOV, P.Ye.; BEVZIK, Yu.Ya.; BELEN'KIY, D.M.; BRATCHENKO, B.F., gornyy inzh.; BRENNER, V.A.; BYR'K, I.F.; VAL'SHTEYN, G.I.; YERMOLENOK, N.S.; ZHISLIN, I.M.; IVANOV, V.A.; IVANCHENKO, G.Ye.; KVON, S.S.; KODYK, G.T.; KREMENCHUTSKIY, N.F.; KURDYAYEV, B.S.; KUSHCHANOV, G.K.; MASTER, A.Z.; PREOBRAZHENSAYA, Ye.I.; ROZENTAL', Yu.N.; RUDOV, I.L.; RUSHCHIN, A.A.; RYBAKOV, I.P.; SAGINOV, A.S.; SAMSONOV, M.T.; SERGAZIN, F.S.; SKLEPCHUK, V.M.; USTINOV, A.M.; UTTS, V.N.; FEDOTOV, I.P.; KHRAPKOV, G.Ye.; SHILENKOV, V.N.; SHNAYDMAN, M.I.; BOYKO, A.A., retsenzent; SUROVA, V.A., ved. red.

[Mining of coal deposits in Kazakhstan] Razrabotka ugol'-nykh mestorozhdenii Kazakhstana. Moskva, Nedra, 1965. 292 p.
(MIRA 18:5)

BYRDAROV, MARIN

Bulgaria/Chemical Technology - Chemical Products and Their Application. Fermentation Industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63598

Author: Byrdarov, Marin

Institution: None

Title: Experience with Clarification of Dessert Wine at DSP Vinprom-Lyaskovets

Original

Periodical: Nashiyat opit otnosno bistrene na desertni vina v tsekha na DSP Vinprom-Lyaskovets. Lozarstvo i vinarstvo, 1955, No 3, 181-185; Bulgarian

Abstract: Description of experiments on clarification of white dessert wine with gelatin and tannin. At low temperature ($+5^{\circ}$) clarification occurs faster than at ordinary temperature ($15-16^{\circ}$). After clarification the wine should not be exposed to air.

Card 1/1

Byrdarov, Svetoslav

ANTIBIOTICS

"Convenient Methods of Titrating Penicillinase and Antipenicillinase Serum", by Svetoslav Byrdarov, Chair of Microbiology of the Medical Faculty in Sofia (Bulgaria), Antibiotiki, No 2, March-April 1957, pp 19-21.

Since current methods of titrating penicillinase are complicated and often require special apparatus, the author devised a biological method of his own which, he claims, is easy, convenient and rapid.

The method is based on the principle of the inactivation of penicillin when it is mixed with penicillinase. Staphylococcus aureus 209, sown into Petri dishes filled with nutrient agar, is used as the test microbe. Disks of filter paper placed on top of the agar medium serve to determine the residual contents of undestroyed penicillin by means of ever-decreasing solutions of penicillinase trickled off in drops. The author defines a unit of penicillinase as the minimum amount required to destroy 100 units of penicillin per hour, at 37° C.

Card 1/2

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ANTIBIOTICS

The titration method for antipenicillinase serum proposed by the author is based on neutralization by antipenicillinase. This done, the residual amount of penicillinase is determined. A unit of anti-penicillinase serum is defined as the minimum amount required to neutralize 1 unit of penicillinase per hour, at 37° C.

Card 2/2

- 35 -

BYRDIN, N. Ya.

Increasing the output and the quality indices in the production
of zinc and cadmium at the Ust'-Kamenogorsk Lead and Zinc Combine.
Trudy Alt. GMNII AN Kazakh. 9:196-200 '60. (MIRA 14:6)

1. Ust' -Kamenogorskiy svintsovo-tsinkovyy kombinat.
(Ust' -Kamenogorsk—Nonferrous metal industries)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307920013-6

BYRDIN, Yu. S.

"Reticulated Tracing Sheet for Determining the Size of Tobacco Leaves," Tabak,
13, No.3, 1952

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307920013-6"

BYRDINA, A.S.

ASTANIN, P.P., professor; BYRDINA, A.S., redaktor; VOROB'YEV, F.I.,
redaktor; VODOLAGINA, S.D., tekhnicheskiy redaktor

[Practical exercises in biochemistry] Prakticheskie zaniatiia
po biokhimii. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1951.
191 p. (MLRA 10:5)
(Biochemistry--Problems, exercises, etc.)

PETROVA, Ye., metodist pavil'ona; TIKHENT'YEV, N., otvetstvennyy redaktor;
BYRDINA, A.S., redaktor; PAVLOVA, M.M., tekhnicheskiy redaktor

["Swine breeding" pavilion; a guidebook] Pavil'on "Svinovodstvo";
putevoditel'. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 22 p.
(MLRA 9:9)

1. Moscow. Vsesoyuznaya sel'skokhozyaystvennaya vystavka, 1954-
(Moscow--Swine breeding--Exhibitions)

BYRDINA, A.S.

NIKITIN, Vladimir Nikolayevich, professor; IVANOV, P.A., redaktor;
BYRDINA, A.S. redaktor; BALLOD, A.I., tekhnicheskiy redaktor.

[Hematological atlas of farm and experimental animals. Color
tables] *Gematologicheskii atlas sel'skokhoziaistvennykh i la-
boratornykh zhivotnykh. Moskva, Gos.izd-vo sel'khoz.lit-ry,
1956, 259 p. TSvetnye tablitsy. 1956. [3]p. and 191 plates in:
(portfolio)* (MLRA 10:6)
(Fluids and humors, Animal)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307920013-6

BYRDINA, A.S.

DOBROCHOTOV, G.N.; LUTSENKO, M.N., redaktor; AZAROVA, O.A., redaktor;
BYRDINA, A.S., redaktor; BALLOD, A.I., tekhnicheskiy redaktor.

[Zootechnician's reference manual] Spravochnik zootekhnika.
Moskva, Gos.izd-vo sel'khоз.lit-ry, 1957. 935 p. (MIRA 10:11)
(Stock and stockbreeding)

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RAMKOV, F.; PLOTNIKOV, D.; LOGUNOV, N.; BYRDINA, A., red.; YEDOTOVA, A.,
tekhn.red.

[Hunting, fur farming, and dog breeding] Okhota, zverovedstvo i
sobakovodstvo. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 91 p.
(Fur farming) (Dogs) (Hunting)

DAVIDOV, Ruben Bogdasarovich, prof.; BYRDINA, A.S., red.; SOKOLOVA, N.N.,
tekhn. red.

[Manual of dairying] Spravochnik po molochnomu delu. Izd. 2.,
perer. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 375 p.
(MIRA 11:11)
(Dairying--Handbooks, manuals, etc.)

KHITENKOV, G.G.; BUDENNYY, S.M.; BYRDINA, A.S., red.; SMIRNOVA, Ye.A.,
tekhn.red.

[The book of horses; use and care of the horse] Kniga o loshadi;
ispol'zovanie loshadi i ukhod za neiu. Moskva, Gos.izd-vo sel'khoz.
lit-ry. Vol.IV. 1959. 317 p.
(Horses) (MIRA 12:10)

PICHUGIN, Leonid Mikhaylovich; AKULOV, Anatoliy Vladimirovich;
BYRDINA, A.S., red.; GUREVICH, M.M., tekhn.red.; PEVZNER,
V.I., tekhn.red.

[Practical studies on the pathological anatomy of domestic
animals; manual on the study of micropreparations] Prakti-
cheskie zaniatia po patologicheskoi anatomii domashnikh zhivotnykh;
posobie po izucheniiu mikropreparatov. Moskva, Gos.izd-vo sel'khoz.
lit-ry, 1960. 255 p.
(Veterinary histology)

(MIRA 14:4)

AKAYEVSKIY, A.I., prof.; KRINTSIN, D.Ya., prof.; MELEKHIN, P.I., dotsent;
BYRDINA, A.S., red.; PEVZNER, V.I., tekhn. red.

[Anatomy and physiology of farm animals] Anatomiiia i fiziologiiia
sel'khozaiistvennykh zhivotnykh. Moskva, Gos.izd-vo sel'khoz.lit-
ry, 1960. 287 p. (MIRA 14:6)
(Veterinary anatomy) (Veterinary physiology)

SADOVSKIY, Nikolay Veniaminovich, prof., doktor veterin.nauk; BYRDINA,
A.S., red.; BALLOD, A.I., tekhn.red.

[Topographic anatomy of farm animals] Topograficheskaya anatomiya
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422 p.
(MIRA 13:10)
(Veterinary anatomy)

NOSKOV, Nikolay Mikhaylovich, kand. veter. nauk; BYRDINA, A.S., red.;
PROKOF'YEVA, L.N., tekhn. red.

[Handbook for practical lessons in epizootiology] Rukovodstvo k
prakticheskim zaniatiiam po eizootologii. Moskva, Gos. izd-vo
sel'khoz. lit-ry, zhurnalov i plakatov, 1961. 343 p.

(MIRA 14:8)

(Communicable diseases in animals)

POVAZHENKO, Ivan Yemel'yanovich, prof.; BYRDINA, A., red.; PROKOF'YEVA, L.,
tekhn. red.

[General veterinary surgery] Obshchaya veterinarnaia khirurgiia.
Izd.2., ispr. i dop. Moskva, Gos. izd-vo sel'skhoz. lit-ry,
1961. 452 p. (MIRA 14:8)
(Veterinary surgery)

PANIN, Aleksandr Ivanovich, prof.; BYRDINA, A.S., red.; TRUKHINA, O.N.,
tekhn. red.

[Sheep raising]Ovtsevodstvo. Moskva, Sel'khozizdat, 1962.
262 p.
(Sheep) (MIRA 16:2)

SMETNEV, Sergey Ivanovich, prof.; BYRDINA, A.S., red.; PEVZNER,
V.I., tekhn. red.; BALLOD, A.I., tekhn. red.

[Poultry farming] Ptitsevodstvo. Izd.4., perer. Moskva,
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1. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyay-
stvennykh nauk imeni V.I.Lenina (for Smetnev).
(Poultry)

IVANOV, Ivan Filippovich, prof.; KOVAL'SKIY, Pavel Alekseyevich, prof.;
BYRDINA, A.S., red.; DEYEVA, V.M., tekhn. red.

[Histology and the principles of embryology of domestic animals] Gistologija s osnovami embriologii domashnikh zhivotnykh. Moskva, Sel'khozizdat, 1962. 678 p. (MIRA 16:6)
(Histology) (Veterinary embryology)

KUGENEV, Petr Venediktovich; BYRDINA, A.S., red.; MAKHOVA,
N.N., tekhn. red.

[Dairying] Molochnoe delo. Moskva, Sel'khozizdat,
1963. 318 p. (MIRA 16:11)
(Dairying)

PANKRATOV, Aleksandr Yakovlevich, prof.; BYRDINA, A.S., red.;
BALLOD, A.I., tekhn. red.

[Microbiology] Mikrobiologija. Izd.2., ispr. i dop. Mo-
skva, Sel'khozizdat, 1962. 398 p. (MIRA 16:12)
(Agricultural microbiology)

ZHIDKIKH, Zoya Aleksandrovna; SMETNEV, Sergey Ivanovich; BYRDINA,
A.S., red.; GUREVICH, M.M., tekhn. red.; OKOLELOVA, Z.P.,
tekhn. red.

[Laboratory and practical lessons in poultry raising] Labo-
ratorno-prakticheskie zaniatiia po ptitsevodstvu. Izd.2.,
perer. Moskva, Sel'khozizdat, 1963. 183 p. (MIRA 17:1)
(Poultry)

KRAVCHENKO, Nikolay Antonovich, doktor sel'khoz.nauk, prof.;
BYRDINA, A.S., red.; KOZLOVSKAYA, M.D., tekhn. red.

[Livestock breeding] Razvedenie sel'skokhoziaistvennykh
zhivotnykh. Moskva, Sel'khozizdat, 1963. 310 p.
(MIRA 17:2)

PETROV, Ioakim Romanovich; KOROPOV, Viktor Mikhaylovich; BYRDINA,
A.S., red.

[Practical manual in pathological physiology] Praktikum
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Izd-vo "Kolos," 1964. 400 p. (MIRA 18:2)

AZIMOV, Grigoriy Iosifovich, prof.; BOYKO, Vasiliy Ivanovich,
prepodavatel'; YELISEYEV, Arkadiy Pavlovich, dots.;
BYRDINA, A.S., red.

[Anatomy and physiology of farm animals] Anatomija i fi-
ziologija sel'skokhoziaistvennykh zhivotnykh. Moskva,
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BAKHTOV, S.G.; PARSHUTIN, G.V.; RODIN, I.I.; TARASOV, V.N.;
YAKIMCHUK, I.L.; BYRDINA, A.S., red.

[Practical manual on veterinary obstetrics, gynecology,
and artificial insemination of farm animals] Praktikum
po veterinarnomu akushерству, ginekologii i iskusstven-
nomu osemeneniu sel'sko-khozaisvennykh zhivotnykh.
[By] S.G.Bakhtov i dr. Moskva, Kolos, 1965. 295 p.
(MIRA 18:4)

AKAYEVSKIY, A.I., prof.; KRINITSYN, D.Ya., prof.; MELEKHIN, P.I.,
dots.; KYRDINA, A.S., red.

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ziologija sel'skokhozjaistvennykh zhivotnykh. Izd.2.,
perer. i dop. Moskva, Kolos, 1965. 374 p.

(MIRA 18:7)

SANNIKOV, M.I., kand. sel'skhoz. nauk spetsialist-ovtsevod;
SNEGOV, V.V., zasl. zootehnik RSFSR, Laureat
Gosudarstvenny premii; OKULICHEV, G.A., kand. sel'-
khoz. nauk, retsenzent; VASIL'YEV, N.A., kand. sel'-
khoz. nauk, retsenzent; BYRDINA, A.S., red.

[Production of thin-fiber wool at the "Soviet Fleece"
Breeding Station] Proizvodstvo tonkoi shersti v plemza-
vode "Sovetskoe runo." Moskva, Kolos, 1965. 174 p.
(MIRA 18:8)

1. Glavnny spetsialist Glavnogo upravleniya nauki, pro-
pagandy i vnedreniya peredovogo optyta Ministerstva
sel'skogo khozyaystva SSSR (for Okulichev). 2. Glavnnyy
spetsialist Glavnogo upravleniya po plemennomu delu
Ministerstva sel'skogo khozyaystva SSSR (for Vasil'yev).

BYRDY, Maria; OGRODZINSKA, Sabina

Iso-agglutinin titer and auto-agglutination following electric
and insulin shock therapy. Polski tygod. lek. 10 no.39:1278-
1283 26 Sept 55.

1.(Z Zakladu Medycyny Sadowej A.M. w Krakowie: kier: prof. dr.
Jan Olbrycht i z Panst. Szpitala dla Nerwowo i Psychicznie
Chorych w Kobierzynie: dyr: dr. Jan Gallus) Bialystok A.M.
Zaklad Medycyny Sadowej.

(SHOCK THERAPY, INSULIN, effects,
on auto-agglut. & iso-agglutinin titer)

(SHOCK THERAPY, ELECTRIC, effects,
on auto-agglut. & iso-agglutinin titer)

(AGGLUTINATION,
auto-agglut. & iso-agglutinin titer, eff. of electric
& insulin shocks.)

BYRDY, Maria; DZIERZYKRAJ-BOGALSKA, Irena

Application of a method of determination of sex chromatin in forensic medicine. Polski tygod. lek. 13 no.16:607-610 21 Apr 58

1. (z Zakladu Medycyny Sadowej Akademii Medycznej w Bialymstoku;
kierownik: doc. dr med. Maria Byrdy i z Zakladu Histologii i Embriologii
Akademii Medycznej w Bialymstoku; kierownik: doc dr med. Helena
Lewinska). Adres: Poznan, II Klinika Chor. Wewn. A.M.

(SEX CHARACTERISTICS,

sex chromatin, determ. in medicolegal identification
(Pol)

(CHROMOSOMES.

same (Pol))

(IDENTIFICATION, MEDICOLEGAL,

determ. of sex chromatin (Pol))

BYRDY, Maria; DZIERZYKRAY-ROGALSKA, Irena

Further studies on the usefulness in forensic medicine of a method
of determination of the so-called sex chromatin. Polski tygod.lek.
15 no.39:1477-1482 26 S '60.

1. Z Zakladu Medycyny Sadowej w Bialymstoku; kierownik: doc. dr
Maria Byrdy i z Zakladu Histologii i Embriologii w Bialymstoku;
kierownik: doc. dr Helena Lewinska.

(CHROMOSOMES chem)
(IDENTIFICATION MEDICOLEGAL)
(SEX CHARACTERISTICS)

BYRDY, S.

"Biological Control of Insecticides on Granary Weevils." P. 107,
(CHEM., Vol. 7, No. 4, Apr. 1954, Katowice, Poland.)

SO: Monthly List of East European Accessions, (EHAL), LC, Vol. 3,
No. 12, Dec. 1954, Uncl.

Tsyrdy, S.A.

✓138

643.0 : 032.051 : 615.0

Byrdy S. A Method of Biological Investigation of the Toxicity of Systematic Insecticides on the Dixippus morosus.

"Metoda biologiczna badania na tóksyczność prejarłów owadobójczych o działaniu wewnętrzny na pajączaku (Dixippus morosus)".
Przemysł Chemiczny No. 11, 1955, pp. 643—644, 1 fig., 1 tab.

A short description is here given of the preparation of calcium arsenate and lead arsenate, and of biological investigation concerning them with Dixippus morosus. The investigation consists in spraying the leaves of Tradescantia albiflora with the products investigated. Individual insects were placed on every sprayed leaf, the beginning of feeding and the moment of death being observed. Computations of the rate of mortality and of the average length of life of insects are here given.

By Rdy, S.

1448

547.592.1.04:543.9

Byrdy S., Górecki K., Kolodziejczyk A. Quantitative Determination of
γ-Isomer of Hexachlorocyclohexane by the Biological Method,
"Ilosciowe oznaczanie izomeron gamma sześciochlorocykloheksanu
metoda biologiczna". Przemysł Chemiczny, No. 11, 1953, pp. 643-647,

3 figs, 3 tabs.

A description of the biological method of quantitative determination of γ-HCH isomer, based on the observation of γ-HCH isomer of given concentration on *Calandra granaria* over a specified period. The degree of activity of certain definite concentrations of γ-HCH isomer is presented in the form of a diagram. Simultaneously, the degree of activity of the sample, investigated is determined and the content of the γ-isomer marked on the curve. Standard solutions were prepared from pure 100% γ-HCH isomer. Every solution was adjusted on 20 units of γ-isomer in 0.1 ml. The degree of insecticide activity was determined exclusively with γ-HCH in gaseous phase. The sample was dissolved in acetone and 0.1 ml of solution placed with a pipette on the upper Petri dish.

Okres 3

BYRDY, S.

Producing Gamatox, an insecticide. p. 77. Vol. 8, no. 3, 1955
Katowice

CHEMIK

SOURCE: East European Accession List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956

BYRDY, S.

Method of biological investigation of the toxicity of systemic insecticides
on the *Dixippus morosus*. p. 643

Vol. 11, no. 11, Nov. 1955

PRZEMYSŁ CHEMICZNY. Warszawa

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

BYRDY, S. ; GORECKI, K. ; KOLODZIEJCZYK, A.

Quantitative determination of the γ -isomer of hexachlorocyclohexane by
the biological method. p. 645

Vol. 11, no. 11, Nov. 1955

PRZEMYSŁ CHEMICZNY. Warszawa

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 3, March 1956

3770. The quantitative determination of γ -hexachlorocyclohexane by a biological method. S. Byrdy, K. Górecki and A. Kołodziejczyk (Expt. Sta. for Plant Preservation, Puławy, Poland). *Przem. Chem.*, 1955, 11, 645-647. The method is based on the insecticidal action of the compound on certain wheat insects (*Calandra granaria*). The action of solutions of known concn. of the γ -isomer is first investigated, and a graph of concn. of the compound against the percentage deaths of the insects is plotted. From this graph the concn. of any sample under examination can be read when its insecticida. activity is known. Insecticidal activity is determined by observing the action in the gaseous phase of 0.1 ml of acetone soln. of the sample on 250 insects for 48 hr. at 24° C. The method was found to be more accurate than polarography.

A. O. JAKUBOVIC

3

BYRDY, S.

BYRDY, S. Research on chemicals for plant protection. p. 287

Vol. 9, no. 10, Oct. 1956

CHEMIK

SCIENCE

Warszawa, Poland

So: East European Accession, Vol. 6, no. 2, Feb. 1957

POLAND/Chemical Technology. Chemical Products and Their
Applications. Pesticides.

II

Abs Jour: Ref Zhur-Khim., No 8, 1959, 28687.

Author : Byrdy, S., Gorecki, K., and Koledziejczyk, I.
Inst :
Title : Methods for Testing the Adhesion of Pesticide
Preparations.

Orig Pub: Polskie Pismo Entomol, B, No 1, 31-37 (1957)
(in Polish)

Abstract: Laboratory methods for testing the adhesion (A) of insecticide preparations (IP) to plant surfaces are described. The A was tested by washing off and blowing off the IP from the surface of *Tradescantia albiflora* leaves with subsequent biological estimation of the residual IP by its toxic action (T.) on *Calcandre*.

Card : 1/2

2 / 8

POLAND/Chemical Technology. Chemical Products and Their Applications. Pesticides.

H

Abs Jour: Ref Zhur-Khim., No 8, 1959, 28687.

granaria over a period of 15-20 days. Six parallel experiments were carried out using 25 insects each. The contact of C. granaria with the IP was continued for 96 hrs. The biological estimation permits a quantitative measurement of λ , based on the ratio of the T_n to the initial T₀ (in %). The λ of other preparations, e.g., fungicides, was tested by recording the weight loss of lead foil sheets wetted with the preparations under test. -- S. Yavrovskaya.

Card : 2/2

Investigations on adhesion of powdered and liquid plant-
protective agents by washing out and blowing off. S.
Lund, V. Cisicki, and A. Minkiewicz (Inst. Barwników
i Poliprodukłów, Pszczyna, Poland). *Promyl Chem.* 13,
351-3 (1957) (English summary).—The leaves of *Tradescantia*
cultivar were covered with different DDT insecticides and
subjected to *Sitophilus granarius*. The dusted and sprinkled
leaves were placed in a special app. where they were washed
with artificial rain or blown with artificial wind (from a fan).
An insecticide which contained 5.5% of DDT was used in an
amt. of 25 kg./ha.; after washing with 1 mm. of rainfall
the effectiveness of the deposit on the leaves dropped by
approx. 60%. Blowing for 5 min. with air at 3-5 m./sec.
decreased the effectiveness by approx. 30%. Investiga-
tions were also carried out on fungicides sprinkled or dusted
on tin foils. A fungicide con g. Cu and called in Poland
Kupricol after washing with 1 mm. of rainfall remained on
the tin foils in an amt. of 83%.

F. J. Hendel //

3

Byrdy, S.

POLAND / Chemical Technology. Chemical Products and
Their Application. Pesticides. H

Abs Jour: Ref Zhur-Khimika, No 9, 1959, 32537.

Author : Byrdy, S., Eckstein, Z., Sobotka, W., Winsztal, H.
Inst : Not given.

Title : Concerning the Insecticide Activity of the Con-
version Products of 1,1,1,-trichloro-2,2-bis
(p-fluorophenyl)- ethane.

Orig Pub: Przem. chom., 1957, 13, No 9, 540-542.

Abstract: No abstract.

Card 1/1

POLAND / Chemical Technology. Pesticides.

H-18

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 78819.

Author : Peczak, J., Byrdy, S.

Inst : Not given.

Title : The Perspectives of Pesticide Chemistry in Poland.

Orig Pub: Chemik, 1958, 11, No 5, 149-152.

Abstract: No abstract.

Card 1/1

BYRDY, Stanislaw; PECZAK, Jerzy

Classification of solvents for the emulsion concentrates of
chemical protection agents for plants. Przem chem 39 no.9:581-585
S '60.

1. Instytut Przemyslu Organicznego, Stacja Doswiadczalna Srodow
Ochrony Roslin, Pszczyna

BIRDY, S.; ECKSTEIN, Z.; PLENKIEWICZ, J.

On insecticidal activity of β -nitrovinylbenzene derivatives.
Bul chim PAN 9 no.10:627-631 '61.

1. Plan Protection Station, Pszczyna, Institute of Organic Industry,
Warsaw and II Department of Organic Technology, Technical University,
Warsaw. Presented by T. Urbanski.

(Nitovinyl group)

BYREK, S.

Veterinary biochemistry. Postepy biochem. 5 no.2:239-243 '59.
(BIOCHEMISTRY - veterinary)

BYREYEV, P.A., prof.; VASHEMOV, L.A., prof.; VOLINSKIY, B.G., dotsent; GERASIMOV, N.V., dotsent; GUREVICH, L.I., dotsent; ZHELYABOVSKIY, G.M., prof.; KARTASHOV, P.P., prof.; KOCHETOV, K.P., dotsent; KRUGLOV, A.N., prof.; KUTANIN, M.P., prof.; LARINA, V.S., dotsent; LOBKOV, I.S., doktor [deceased]; LUKOVA, A.I., prof.; MAKHLIN, Ye.Yu., prof.; NAUMOV, A.I., kand.med.nauk; POPOV'YAN, I.M., prof.; SOLUN, N.S., kand.med.nauk; TARABUKHIN, M.M., dotsent; TRET'YAKOV, K.N., prof.; TRISHINA, A.A., kand.med.nauk; UL'YANOVA, A.V., dotsent; FAYN, A.E., kand.med.nauk; FAKTOROVICH, A.M., dotsent; FRANKFURT, A.I., prof.; FISHER, L.I., dotsent; CHASOVNIKOVA, Ye.P., kand.med. nauk; SHAMARIN, P.I., prof.; SHAPIRO, M.Ya., dotsent; SHVARTS, L.S., prof.; SHUSTERMAN, I.B., dotsent; FOY, A.M., prof.; FREYDMAN, S.L., kand.med.nauk; NIKITIN, B.A., dotsent, red.; AFANAS'YEV, I.A., red.; LUKASHEVICH, V., tekhn.red.

[Concise medical reference book] Kratkii terapeuticheskii spravochnik. Izd.3., ispr. i dop. Saratov, Saratovskoe knizhnoe izd-vo, 1959. 919 p.
(MIRA 13:7)

1. Chlen-korrespondent AMN SSSR (for Tret'yakov).
(MEDICINE--HANDBOOKS, MANUALS, ETC.)

BYR'KA, V.F., Cand Tech Sci -- (diss) "Study of relay
circuits of ~~mining~~ installations of the STsB."

Khar'kov, 1959, 13 pp; 1 sheet of drawings (Min of Higher
Education UkrSSR. Khar'kov Mining Inst) 150 copies
(KL, 33-59, 118)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307920013-6

BYR'KA, V.F.; KRAUS, E.G.; TOMILIN, N.F.; PARFENOV, V.V.; FOMINYKH, F.D.

Experimental stoping cutter-loader with a regulated d.c.
drive. Nauch. trudy KNIUI no.15:23-40 '64. (MIRA 18:8)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307920013-6"

BIR'KA, V.F.; DONIS, V.K.; TURTANOV, Yu.A.

Electric tensiometric scales for an apron conveyor. Nauch.
trudy KNIUI no.15:115-121 '64. (MIRA 18:3)

IVANCHENKO, G.Ye.; TIKHONOV, V.Ya.; BYR'KA, V.F.; KAN, Sh.U.

Determining the transient process in a stepped-relay system
of automatic control with a multiple series operation of the
regulator. Nauch. trudy KNIUI no.15:196-221 '64.

(MIRA 18:8)

13.2000

30497
S/194/61/000/008/038/092
D201/D304AUTHOR: Byr'ka, V.F.

TITLE: Synthesis of switching systems having time-delay relays

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 47, abstract 8 V355 (Nauchn. tr. kargandinskogo n.-i. ugol'n. in-t, 1959, no. 4, 428-440)

TEXT: In conditions when short-lasting breaks in el-power supply are possible, it is suggested that relays with magnetic delay be used in systems of automation and telemechanics (with fixation). These relays have 2 windings, the magnetizing sinding X^m and demagnetizing winding X^d . To eliminate the magnetization polarity reversal of the core there is a proviso for special ampere-turns in the X^d winding which are equal to 20-25% of the working ampere-turns. For such relays the structural formula has the form:

$$F = f^m X^m + f^d X^d$$

✓

Card 1/2

Synthesis of switching systems...

30497
S/194/61/000/008/058/092
D201/D304

where f^m and f^d are the conditions of operation and drop out of the relay respectively, and $f^m, f^d = 0$. For the source with center point (t_o) a relay with one winding only may be used, for which the structural formula has the form:

$$F = t_o X (f^d R t_d + f^m t_m),$$

where t_m and t_d are the positive and negative pole respectively of the current source and R - a limiting resistance for limiting the demagnetizing ampere-turns. The example is given of synthesis of a circuit controlling the signals of a 2-way light signal. 6 references. Abstracter's note: Complete translation ✓

Card 2/2

16.8000

S/194/61/000/007/025/079
D201/D305

AUTHOR: Byr'ka, V.P.

TITLE: Synthesizing multichannel remote control - remote signalling systems by elementary circuit division

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1961, 53, abstract 7 V395 (V sb. Vopr. mekh-aniz. i avtomatiz. v gom. prom-sti, no. 5, M., Gos-gortekhizdat, 1960, 93-102)

TEXT: The analytical method is given of synthesizing multichannel remote control and signalling systems TY-TC (TU-TS) by means of elementary circuit division. The procedure is analyzed of the transformation of a telecontrol system into the equivalent TU-TS with elementary division of circuits, based on the method of equivalent inversion. An example is given. 4 figures. 5 references. [Abstracter's note: Complete translation] *VB*

Card 1/1

13.7000

S/194/61/000/008/039/092
D201/D304

AUTHORS: Byr'ka, V.F. and Kozlov, R.V.

TITLE: Synthesis of relay circuits of mining **СУ5** (STsB) installations using time-delay relay

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 47, abstract 8 V356 (V sb. Vopr. mekhaniz. v gorn. prom-sti, no. 5, M., gosgortekhizdat, 1960, 103-113)

TEXT: The example of synthesis of the control system of a one-way light signal is used for demonstrating the application of the analytical method of synthesis of relay circuits with magnetic delay (fixation) relays type **КДРФ** (KDRF). It is shown that the use of these relays is of advantage in cases where short-time stoppages of power supplies are possible. 6 references. *[Abstracter's note: Complete translation]* ✓B

Card 1/1

BYR'KA, V. F., inzh.; VIGANDT, A. G., inzh.; TIKHONOV, V. Ya., inzh.

Automatic control of production processes in the Karaganda
Basin coal mines. Izv. vys. ucheb. zav.; gor. zhur. no.10:121-
124 '61. (MIRA 15:10)

1. Karagandinskiy nauchno-issledovatel'skiy ugol'nyy institut
(for Byr'ka). 2. Karagandinskiy politekhnicheskiy institut (for
Tikhonov). Rekomendovana Karagandinskym politekhnicheskim
institutom.

(Karaganda Basin—Coal mines and mining)
(Automatic control)

TIKHONOV, V.Ya., kand. tekhn. nauk; KAN. Sh.U., kand. fiziko-matem. nauk;
BYR'KA, V.F., kand. tekhn. nauk

Transient process in an automatic-control stepped-relay system
during multiple successive controller firing. Izv. vys. ucheb.
zav.; gor. zhur. 6 no.9:172-181 '63. (MIRA 17:1)

1. Karagandinskiy politekhnicheskiy institut (for Tikhonov, Kan).
2. Karagandinskiy nauchno-issledovatel'skiy ugol'nyy institut
(for Byr'ka).

BYR'KA, V.F.; FEDOROV, Ye.F.

The RDK-2 automatic regulator for stabilizing the operation
of the "Karaganda" cutter-loader in a vertical plane. Nauch.
trudy KNIUI no. 11:162-171 '62. (MIRA 17:7)

BYR'KA, V.F.; DONIS, V.K.; TURTANOV, Yu.A.

Studying the dynamics of automatic conveyer scales. Nauch.
trudy KNIUI no. 11:192-200 '62. (MIRA 17:7)

L 20885-66 EWT(d)

ACC NR: AP6002517

SOURCE CODE: UR/0286/65/000/023/0024/0024

AUTHORS: Byr'ka, V. F.; Ibikus, U. Yu.; Govor, G. A.

ORG: none

TITLE: A push-pull pulse length modulator, Class 21, No. 176606 [announced by Karaganda Scientific-Research Institute of Coal (Karagandichskiy nauchno-issledovatel'skiy ugol'nyy institut)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 24

TOPIC TAGS: pulse modulation, pulse width modulation, linear function

ABSTRACT: This Author Certificate presents a two-cycle pulse width modulator. The modulator contains two identical arms. Each arm has a semiconductor triode with a grounded emitter. The primary winding of a transformer is connected to the collector circuit of the triodes (see Fig. 1). The transformer has a core with a rectangular hysteresis loop. One terminus of the secondary winding of the transformer is connected to ground and the other to one end of the load which is common to both arms. The other end of the load is connected to ground. The design provides linearity of the modulation characteristic. The load is connected

Card 1/2

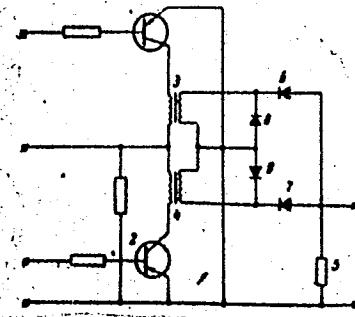
UDC: 621.376.5

L 20885-66

ACC NR: AP6002517

to the secondary winding through semiconductor diodes, and the anodes of the diodes are connected with the load. Semiconductor stabililitrons are connected in parallel with the secondary windings, and the anodes of the stabililitrons are grounded.

Fig. 1. 1 and 2 - Semiconductor triodes;
3 and 4 - transformers; 5 - load;
6 and 7 - semiconductor diodes;
8 and 9 - semiconductor stabililitrons.



Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 15Jul64

Card 2/2 *DLR*

1. Bvrkit, G.D. Michalek, G.A.
2. USSR (600)
4. Hydrazine
7. Hydrazine in organic chemistry (from "Ind. Eng. Chem." 42, 1950. Usp. khim. 21 no.12, 1952.)
9. Monthly List of Russian Accessions. Library of Congress, March 1953, Unclassified.

BYR RD V.M.

Chemical mechanism of the oxidation of propane in the
gas phase. M. M. Ber, E. V. Lopatinova, and A. S.
Lukyanikov. Dokl. Akad. Nauk S.S.R. R. 102, 1093-5
(1955). Propane tagged with C¹⁴ was synthesized by the
method used in the synthesis of tagged propylene (Neiman,
et al., C.A. 46, 412a) and freed from the olefins and CO₂
formed simultaneously. The purity was tested mass-
spectroscopically. The propane was oxidized under flow
conditions at 340° in Mo-glass vessels, and the gas stream
was chemically analyzed at the reaction temp. The
RCHO and CH₂CHO were determined by condensation with
dimedon; CO₂ and CO (the latter after oxidation with I₂O₅)
were determined by BaCO₃. The results obtained agree with N.
N. Semenov's theory (*Uspekhi Khim.*, 20, 1951)) of chem.
oxidation mechanism, which involves the elementary
isomerization reaction of free radicals. W. M. Sternberg

3

Dokl. Chem. Phys., AS USSR

5(8); 21(5) PLATE I BOOK SEPARATION
Akademiya Nauk SSSR. Kibernetika po analiticheskoy khimii
Primenenie radioaktivnykh izotopov v analiticheskoy khimii
(Use of Radioactive Isotopes in Analytical Chemistry) Moscow
Izdat. Akad. Nauk SSSR, 1958. 366 p. [Series: Itogi Nauki, t. 9 (12)]
Buro, M., I.P. Alimarin, Corresponding Member, USSR Academy
of Sciences, Head of Publishing House; A.N. Yermakov, Tech.
Ed., T.Y. Polyakova.

Project. The book is intended for chemists and chemical
engineers concerned with work in analytical chemistry.

Contents. The book is a collection of the principal papers
presented at Moscow at the Second Conference on the Use of
Radioactive Isotopes. The problems discussed at the
conference included separation, aging, and solubility
of precipitates, determination of the lability of constants
Card 1/10

of complex compounds, separation of rare earth metals, and
ion-exchange chromatography. No percentages are given.
There are 351 references, 175 of which are Soviet, 33 German,
19 French, 8 Swedish, 2 Hungarian, and 2 Czech.

Table of Contents

Use of Radioactive Isotopes (Cont.)	SOY/1900
Izmylev, S.I., and V.J. Choroz. Study of the Solubility of Oxide in Nonaqueous Solvents with the Aid of Tracer Atoms	44
Bauer, A.I., and V.I. Pyas'ko. Determination of the Activity Product of Uranium Dithyldithiophosphate by the Radioactive Indicator Method	59
Babkin, A.M., and P.V. Marchenko. Study of the Conditions for Precipitation of Electroanalogues of Some Metals in the Form of Halogen Compounds With Basic Dyes	65
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	Card 2/10
Bauer, A.I., and V.M. Bystritskaya. Radiometric Titration of Thallium Chloride in the Presence of Sodium Salt of 1-Methylcarboxy-2-Methylpyrazoline	200

AUTHORS: Kost, A. N., Busev, A. I.,
Grandberg, I. I., Byr'ko, V. M. SOV/156-58-2-37/48

TITLE: The Dithiocarbamates of the Pyrazoline Series (Ditiokarbamaty pirazolinovogo ryada) Their Synthesis and Investigation as Analytic Reagents (Sintez i izuchenije ikh kak analiticheskikh reagentov)

PERIODICAL: Nauchnye doklady vysshey shkoly. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 2, pp. 349 - 353 (USSR)

ABSTRACT: The first mentioned salts are widely used in analytic chemistry (Refs 1-3). The acids from pyrrolidine and piperidine synthetized are stable in acid media and in the case of heating and have a somewhat higher selectivity than others. The comparatively simple new production methods of the pyrazolines (Refs 4-7) enabled the authors to carry out the synthesis of the dithio-carbamic acids of the pyrazoline series (1-dithio-carboxy-pyrazoline). These acids were isolated as sodium salts. They crystallize well, are stable in dry state and well soluble in water as well as in alcohol. The aqueous solutions of these salts give an alkaline reaction; in

Card 1/3

The Dithiocarbamates of the Pyrazoline Series. Their
Synthesis and Investigation as Analytic Reagents

SOV/156-58-2-37/48

the case of an acidification, however, a decomposition takes place, since the corresponding dithio carbamic acids are not stable. A new method due to Fedoseyev (Ref 9) was used here, since an elementary analysis of the sodium salts by means of usual methods does not yield good results (e.g. Ref 8). The products of the ethylation of cyanogen have a distinct melting temperature and may therefore serve for the identification of the substances. 10 (I - X) compounds were synthetized and investigated as analytic reagents. Absorption spectra taken for the sodium salts and the stability in aqueous solutions were investigated. The solubility of some cadmium derivatives was determined by means of the method of tracer atoms. It was proved that pyrazoline dithio-carbamates separate certain groups of metal cations at different pH-values. There are 2 figures, 1 table, and 13 references, 9 of which are Soviet.

Card 2/3

The Dithiocarbamates of the Pyrazoline Series. Their
Synthesis and Investigation as Analytic Reagents

SOV/156-58-2-37/48

ASSOCIATION: Kafedry organicheskoy i analiticheskoy khimii Moskovskogo
gosudarstvennogo universiteta im.M.V.Lomonosova (Chairs
of Organic and Analytical Chemistry of the Moscow State
University imeni M.V.Lomonosov)

SUBMITTED: November 29, 1957

Card 3/3

BUSEV, A.I.; BYRKOV, V.M.

Radioactive indicator technique for determining the activity product
of cadmium diethyldithiophosphate. Trudy kom.anal.lhim. 9:59-64 '58.
(MIRA 11:11)

(Activity coefficients) (Cadmium organic compounds)
(Radioactive tracers)

BUSEV, A.I.; BYR'KO, V.M.

Radiometric titrations of thallium, cadmium, and zinc by sodium
salt of 1-dithiocarboxy-5-methylpyrazoline. Trudy kom.anal.khim.
9:200-204 '58. (MIRA 11:11)

(Titration) (Metals-Analysis) (Pyrazoline)

AUTHORS: Gibalo, I.M., Byr'ko, V.M.

32-3-11/52

TITLE: The Radiometric Titration of Zinc and Cadmium With Potassium Ferricyanide (Radiometricheskoye titroveniye tsinka i kadmiya ferrotsianidom kaliya)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 24, NR 3, pp. 281-283 (USSR)

ABSTRACT: A titration method was worked out in which potassium ferrocyanide with Fe-59 is used as a reagent and samples can be taken during titration, the activity of which is determined. Work was carried out in a medium of sulfuric acid (1-2n) and a maximum error limit of 2.5% was determined. In order to accelerate determination (to 10-15 minutes) only two activities are determined and the result is calculated according to a given formula. In the titration of cadmium it was observed that there must be a surplus of potassium salt. From a sample containing both cadmium and zinc the sum was determined titrimetrically with potassium ferrocyanide (with Fe-59), with a surplus of potassium sulfate, after which the cadmium was precipitated with β -naphtoquinoline, and zinc was determined in the filtrate. The cadmium was then computed from the difference. There are 3 tables, and 5 references, 5 of which are Slavic.

Card 1/2

The Radiometric Titration of Zinc and Cadmium With Potassium Ferricyanide

32-3-11/52

ASSOCIATION: Moscow State University imeni M.V. Lomonosov (Moskovskiy
gosudarstvennyy universitet im. M.V. Lomonosova)

AVAILABLE: Library of Congress

1. Zinc-Titration 2. Cadmium-Titration 3. Potassium ferricyanide Applications

Card 2/2

KOST, A.N.; TERENT'YEV, P.B.; BYR'KO, V.M.

Hexamethylenedithiocarbamic acid and its derivatives. Vest.Mosk.
un.Ser.mat., mekh.astron.fiz.khim. 14 no.4:195-198 '59.
(MIRA 13:8)

1. Kafedra organicheskoy khimii Moskovskogo universiteta.
(Carbamic acid)

BUSEV, A.I.; BYR'KO, V.M.

Consecutive radiometric titration of some elements by the sodium salt of 1-dithiocarboxy-3-methyl-5-phenylpyrazoline, containing sulfur-35. Izv.vys.ucheb.zav.; khim.i khim.tekh. 3 no.1:52-55 '60. (MIRA 13:6)

1. Kafedra analiticheskoy khimii Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.
(Metals--Analysis) (Pyrazoline)

BUSEV, A.I., BYR'KO, V.M., GRANDBERG, I.I.

Photometric determination of molybdenum in the presence of tungsten with the aid of sodium 5-phenylpyrazoline-1-dithiocarbamate. Vest. Mosk. un. Ser. 2: khim. 15 no.2:76-80. Mr-Ap '60.
(MIRA 13:6)

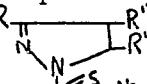
1. Kafedra analiticheskoy khimii Moskovskogo universiteta.
(Molybdenum--Analysis)

S/189/60/000/003/010/013/XX
B003/B067

AUTHORS: Busev, A. I., Byr'ko, V. M.

TITLE: Exchange Reactions of Pyrazoline Dithiocarbaminates¹ and
Their Use for Radiometric Determinations in Analogy With
Diethyl Dithiocarbamate²

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya 2, khimiya, 1960, Vol. 15,
No. 3, pp. 46-50

TEXT: The authors studied the metal ion exchange reactions of the pyrazoline dithiocarbaminates for the purpose of finding new possibilities for using these compounds in analyses. From among the compounds of the general formula  mainly sodium 3-methyl-5-phenylpyrazoline-1-dithiocarbamate was used. The other compounds used (R'' - furyl R', R'', R - CH₃ R', R'' - C₆H₅ a.o.) react completely analogously. The exchange reactions took place between aqueous solutions of the metal salts and

Card 1/4

Exchange Reactions of Pyrazoline Dithiocarbaminates and Their Use for Radiometric Determinations in Analogy With Diethyl Dithiocarbamate

S/189/60/000/003/010/013/xx
B003/B067

organic dithiocarbamate solutions, immixible with water, according to the following equation $m[\text{Me}_2^{\text{n}+}]_{\text{H}_2\text{O}} + n[\text{Me}_1\text{R}_m]_{\text{org}} \rightleftharpoons n[\text{Me}_1^{\text{m}+}]_{\text{H}_2\text{O}} + m[\text{Me}_2\text{R}_n]_{\text{org}}$

(R = dithiocarbamate anion, m and n = stoichiometric coefficients, Me = metal ion). The aqueous phase contained Na-tartrate as masking agent. Chloroform was used as organic solvent. Radioactive ions were interchanged with nonactive metal ions. The salts of pyrazoline dithiocarbamic acids were obtained by introducing the Na-salt of these acids into the aqueous solutions of the metal salts and by subsequent extraction with chloroform. The reaction intensity was determined radiometrically. CBT-8 (SBT-8) and AC-2 (AS-2) beta counters as well as AMM-4 (AMM-4) gamma counters served as measuring instruments. Fig. 1 shows the dependence of the intensity on the duration of shaking, after the two phases had been brought in contact (organic phase - InR₃, aqueous phase Zn²⁺-solution, pH ~ 8.5).

The exchange equilibrium occurs already after three minutes. Fig. 2 shows the dependence of the reaction intensity on the pH of the aqueous phase

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(organic phase - InR_3 , aqueous phase Zn^{2+} -solution, and organic phase - TlR_3 , aqueous phase Cu^{2+} solution). The optimum pH value was 8.5. Table 1 gives a survey of the reciprocal displacement of the different metals from their compounds with pyrazoline dithiocarbamic acid. The displacement takes place in the following order: Tl^{3+} , Cu^{2+} , Bi^{3+} , Pb^{2+} , In^{3+} (with the preceding metal displacing the following one). The determinations were made by measuring the change of radioactivity in one of the two phases. If the exchange proceeds completely and at stoichiometric ratios (Fig. 3) the calibration curve may be replaced by a calculation from formula $A_1 = (A_2 m M_2 / n M_1) [1 - (J_2 - \bar{J}) / (J_1 - \bar{J})]$ (A_1 amount in grams of the element Me_1 to be determined, A_2 amount of Me_2 contained in the initial solution, M_1 and M_2 atomic weights of the metals, m and n stoichiometric coefficients, J_1 radioactivity of the initial solution of Me_2 before shaking, J_2 activity of the Me_2 solution after shaking, \bar{J} background level). The Card 3/4 ✓

Exchange Reactions of Pyrazoline Dithiocarbaminates and Their Use for Radiometric Determinations in Analogy With Diethyl Dithiocarbamate

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following examples of analyses are given: determination of Tl and Al by displacing radioactive In from its pyrazoline dithiocarbamate compounds, determination of In by displacement with Zn⁶⁵ (Fig. 3, Table 2). Among others, a paper by S. Ye. Kreymer and L. P. Butylkin is mentioned. The present paper was a contribution to the first Vsesoyuznaya konferentsiya vuzov po radiokhimii (First All-Union Conference of the Universities on Radiochemistry) on April 21, 1959, section "Primeneniye radioaktivnykh izotopov v khimii" (Application of Radioactive Isotopes in Chemistry). There are 3 figures, 3 tables, and 4 references: 2 Soviet, 1 CSR, and 1 German.

ASSOCIATION: Moskovskiy universitet, Kafedra analiticheskoy khimii
(Moscow University, Chair of Analytical Chemistry)

SUBMITTED: May 28, 1959

Card 4/4

NEFEDOV, V.N.; BYRKOVSKIY, V.Ye.

Preliminary data on the zoological and parasitological study
of foci of tick-borne encephalitis in the Altai Territory.
Med.paraz.i paraz.bol. no.3:338-341 '62. (MIRA 15:9)

1. Iz parazitologicheskogo otdela (zav. - A.A. Shesterikova)
krayevoy sanitarno-epidemiologicheskoy stantsii (glavnnyy vrach
A.Ye. Shestopalova).
(ENCEPHALITIS) (ALTAI TERRITORY--TICKS AS CARRIERS OF DISEASE)

BYR'KO, V.M.

Extraction of metal compounds with pyrazolidinethiocarbamates.
Trudy Kom.anal.khim. 14:191-201 '63. (MIRA 16:11)

ACC NR: AP7002887

(A)

SOURCE CODE: UR/0189/66/000/006/0072/0078

AUTHOR: Busev, A. I.; Byr'ko, V. M.; Zhukova, R. G.

Moscow State University

ORG: Analytical Chemistry Department, (Kafedra analiticheskoy khimii Moskovskogo gosudarstvennogo universiteta)

TITLE: Extractive-photometric determination of bismuth in niobates by means of pyrazoline dithiocarbamates

SOURCE: Moscow. Universitet. Vestnik. Seriya II. Khimiya, no. 6, 1966, 72-76

TOPIC TAGS: bismuth, niobate, photometric analysis

ABSTRACT: In order to find the best reagent for the photometric determination of bismuth, compounds of the latter with the following aryl-substituted pyrazoline dithiocarbamates (used in the form of sodium salts) were studied: 5-phenyl, 3-phenyl, 3-phenyl-5-(furyl-2) and 3,5-diphenyl-1-pyrazoline dithiocarbamates (PDTC). The compounds formed had the formula $\text{Bi}(\text{PLTC})_3$. Optimum conditions for determining bismuth were established by studying the chloroform extraction of the compound formed by bismuth with 3-phenyl-PDTC in samples of potassium, rubidium and lithium niobates and niobium pentoxide. Since the sensitivity of the method is 8×10^{-5} , and the samples contained much less bismuth than this amount, a solution of bismuth nitrate was added to the samples before the determination in order to check the applicability of the method to them. The results are shown in Table 1. Orig. art. has: 2 figures and 2 tables.

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UDC: 543.70

ACC NR: AP7002887

Sample	Weight g	Bi ad- ded, μg	'Bi' found		Error, %
			μg	%	
Lithium niobate	0.9950	1.0	0.9	$0.9 \cdot 10^{-4}$	-10
	1.0080	1.5	1.6	$1.6 \cdot 10^{-4}$	+6.6
Potassium niobate	0.9854	1.0	1.0	$1 \cdot 10^{-4}$	
	0.9731	2.0	1.6	$1.6 \cdot 10^{-4}$	-12
Rubidium niobate	0.9854	1.0	1.2	$1.2 \cdot 10^{-4}$	+20
	0.9731	2.0	1.9	$1.9 \cdot 10^{-4}$	-5
Niobium pentox- ide	1.0032	1.0	0.9	$0.9 \cdot 10^{-4}$	-10
	1.0104	2.0	1.7	$1.7 \cdot 10^{-4}$	-11

Table 1. Determination of bismuth in potassium, rubidium and lithium niobates by the extractive-photometric method with 3-phenyl-PDTC

SUB CODE: 07/ SUBM DATE: 01Feb66/ ORIG REF: 007/ OTH REF: 002

Card 2/2

MIKHAYLOV, N.V.; YEFIMOVA, S.G.; BYRKOVA, L.F.

Density of the diluted solutions of some fiber forming polymers.
Khim. volok. no. 5:8-13 '65. (MIRA 18:10)

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volokna.

PAPKOV, S.P.; YEFIMOVA, S.G.; MIKHAYLOV, N.V.; BYRKOVA, L.F.

Forms in which polyvinyl alcohol is separated from solution
when a precipitant is added. Vysokom. soed. 8 no. 1:69-75
Ja '66 (MIRA 1981)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstven-
nogo volokna. Submitted February 12, 1965.